

1/15

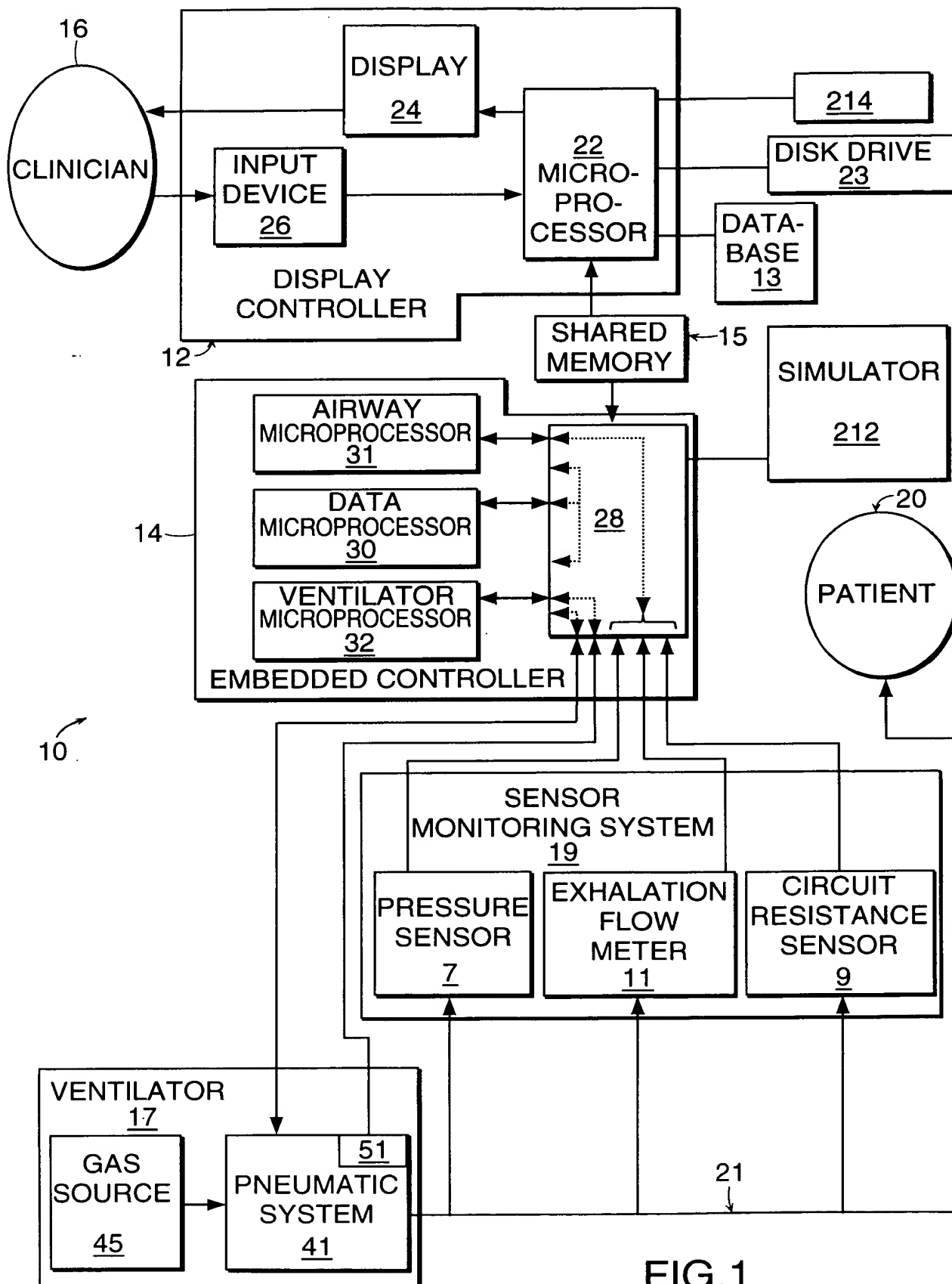
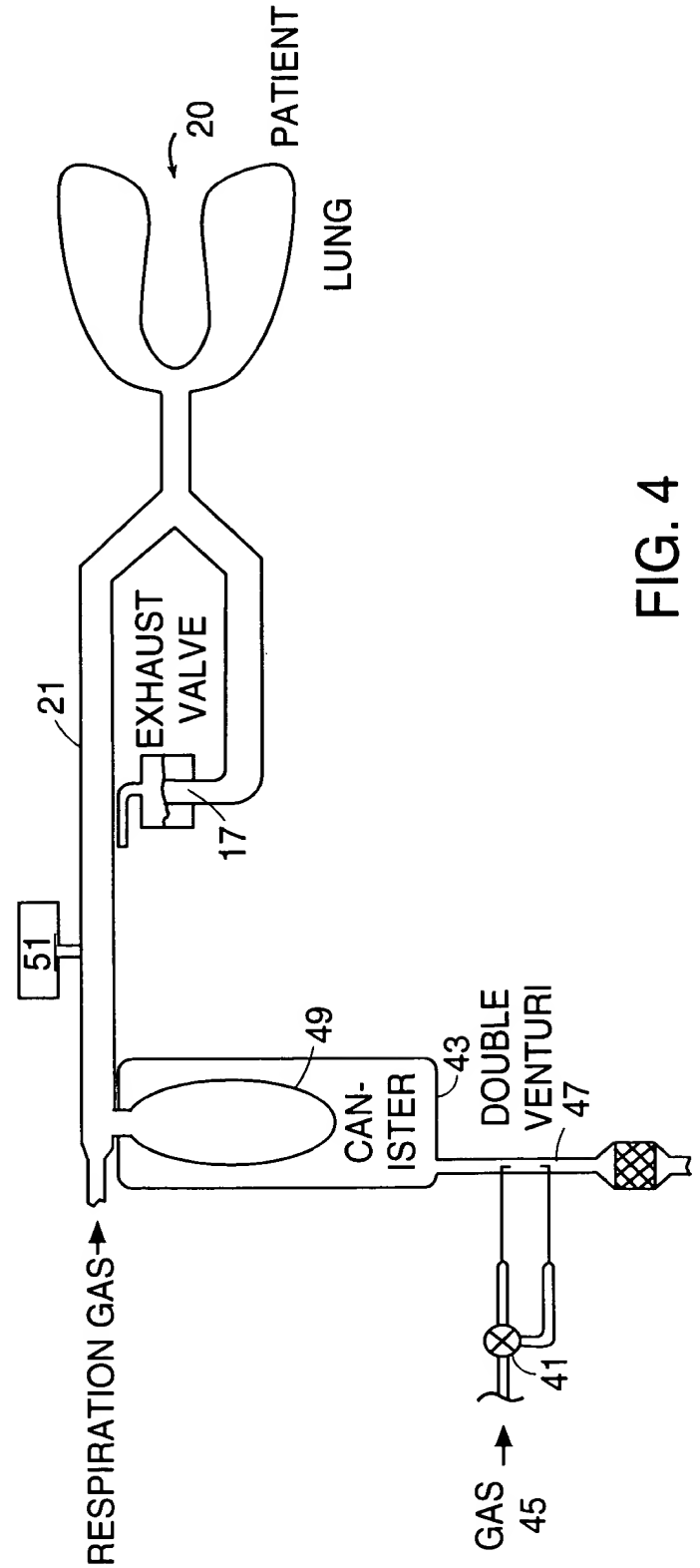
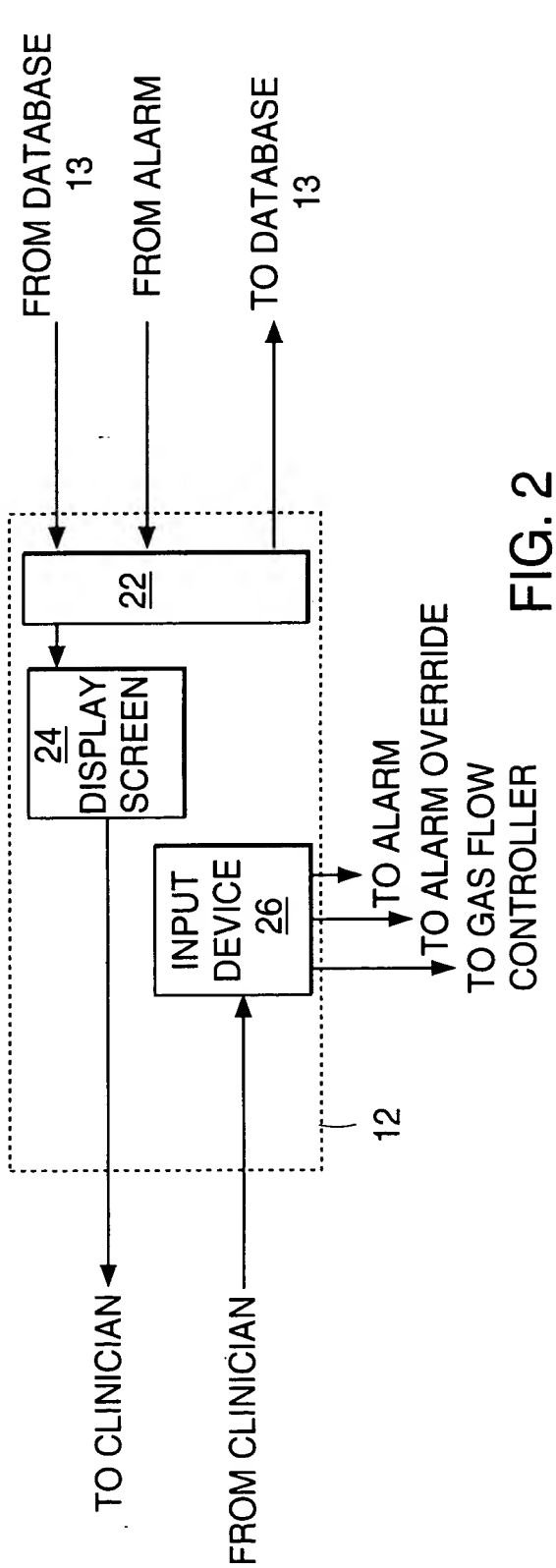


FIG.1

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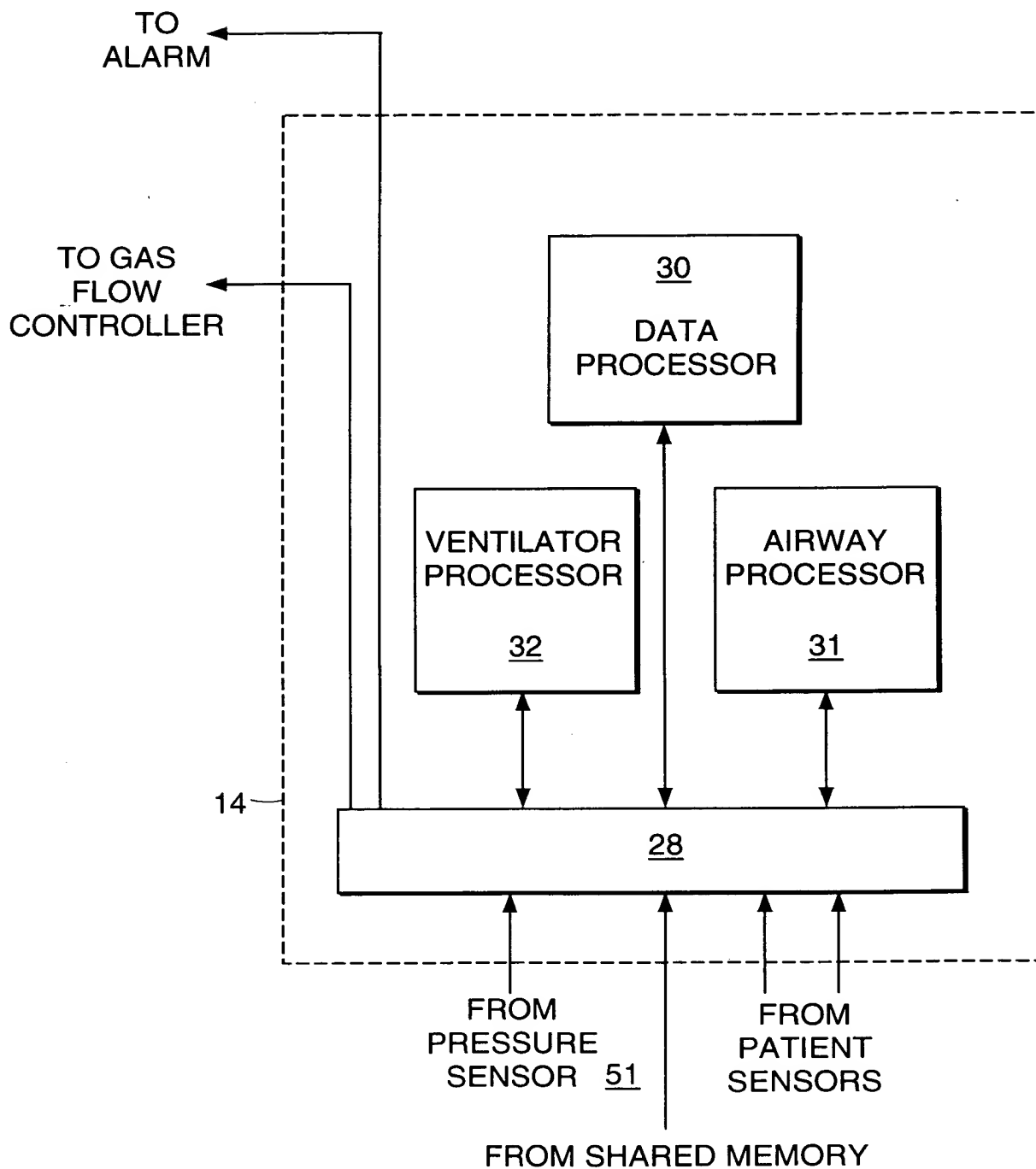


FIG. 3

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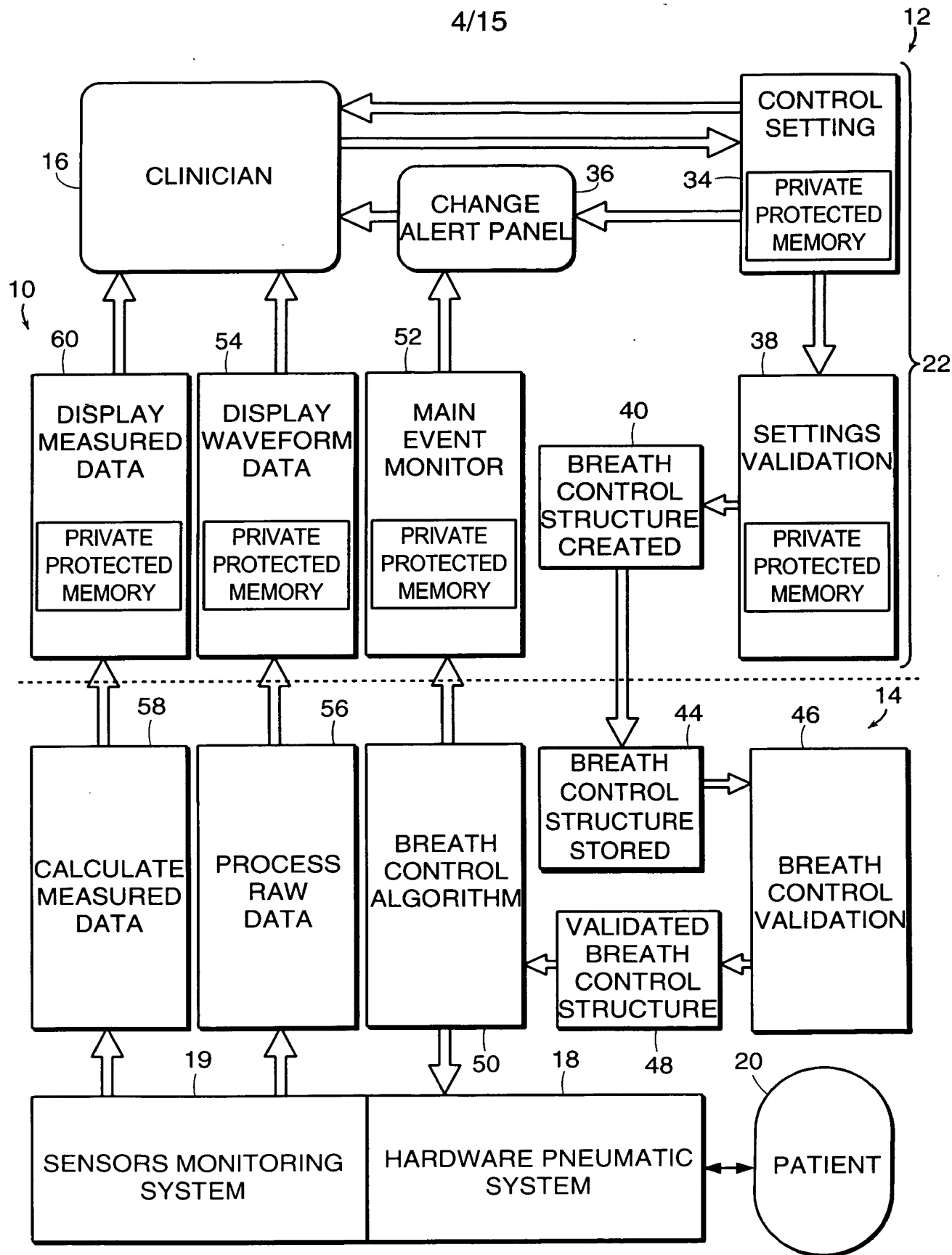


FIG. 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Ventilator Control System and Method  
Inventor(s): Biondi et al.  
U.S. Serial Number: 09/931,572  
Atty Docket No.: CPC-003CPCN2  
Atty: Ronda P. Moore, D.V.M. (617)248-7044  
Sheet 5 of 15

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```

IF ((FLOW SLOPE INCREASING)                                (STEP 300)
AND (PRESSURE SLOPE DECREASING)
THEN (ADD INHALED VOLUME TO
TO EVENT VOLUME = (VOLUME - BASELINE))
ELSE (ADD (0) TO EVENT
VOLUME = (VOLUME-BASELINE))

IF (EVENT VOLUME > TRIGGER VOLUME)                          (STEP 310)
THEN (TRIGGER FLAG = YES)

IF (TRIGGER FLAG = YES)                                       (STEP 320)
THEN ((IF TIME > 200mSEC) THEN (TRIGGER FLAG = NO)
ELSE (ADD TO VOLUME = (VOLUME - BASELINE)))

IF (VOLUME > TRIGGER VOLUME)    (STEP 330)
THEN (INITIATE BREATH))
ELSE (DO NOT INITIATE BREATH)

```

FIG. 6

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Ventilator Control System and Method  
Inventor(s): Biondi et al.  
U.S. Serial Number: 09/931,572  
Atty Docket No.: CPC-003CPCN2  
Atty: Ronda P. Moore, D.V.M. (617)248-7044  
Sheet 6 of 15

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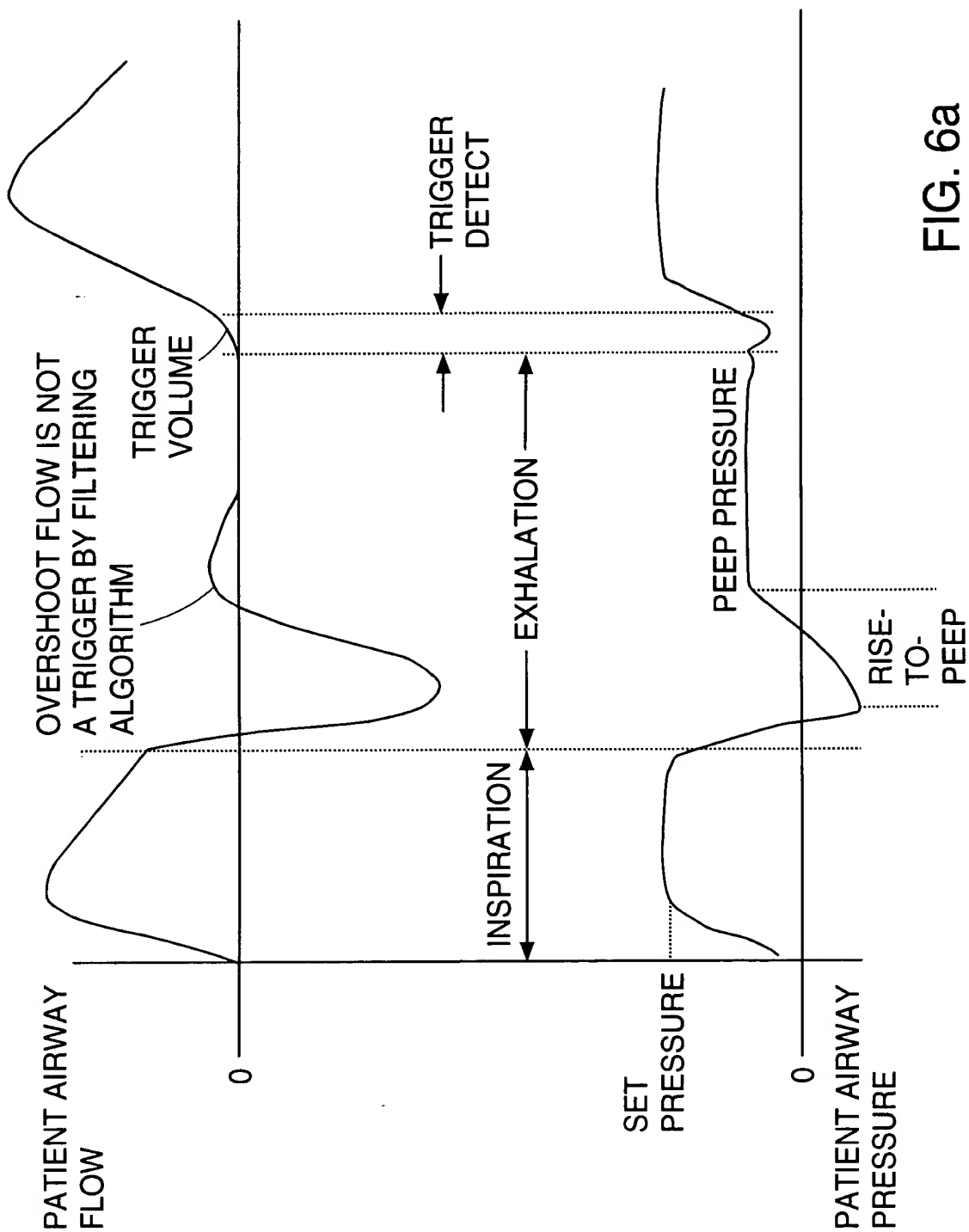


FIG. 6a

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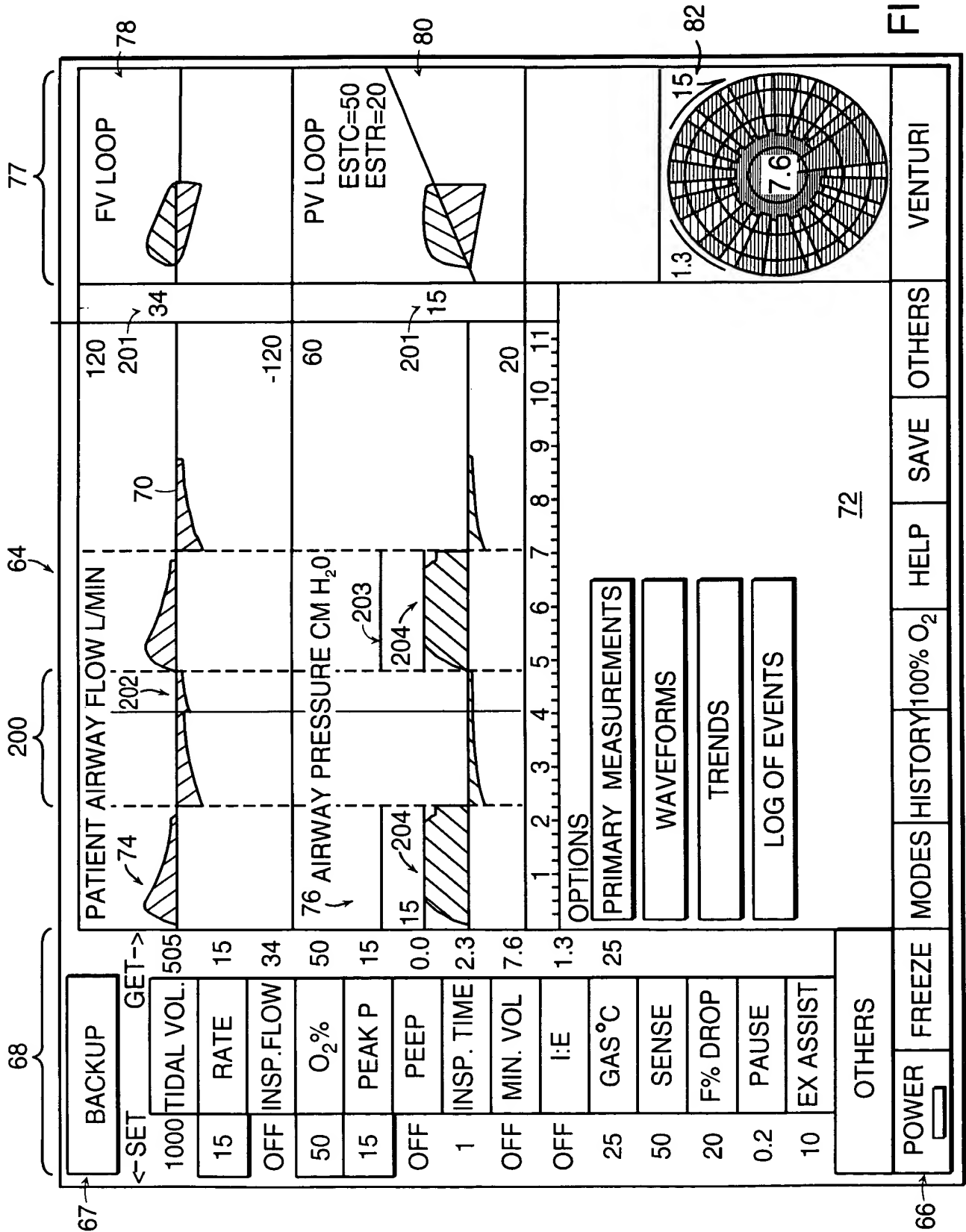


FIG. 7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Ventilator Control System and Method  
Inventor(s): Biondi et al.  
U.S. Serial Number: 09/931,572  
Atty Docket No.: CPC-003CPCN2  
Atty: Ronda P. Moore, D.V.M. (617)248-7044  
Sheet 8 of 15

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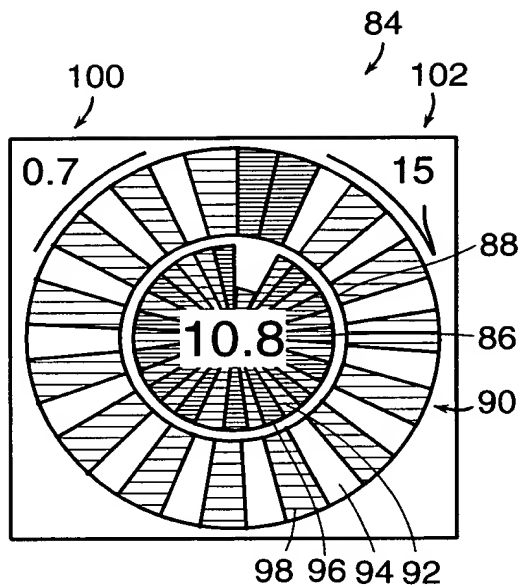


FIG. 8



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Ventilator Control System and Method  
 Inventor(s): Biondi et al.  
 U.S. Serial Number: 09/931,572  
 Atty Docket No.: CPC-003CPCN2  
 Atty: Ronda P. Moore, D.V.M. (617)248-7044  
 Sheet 9 of 15

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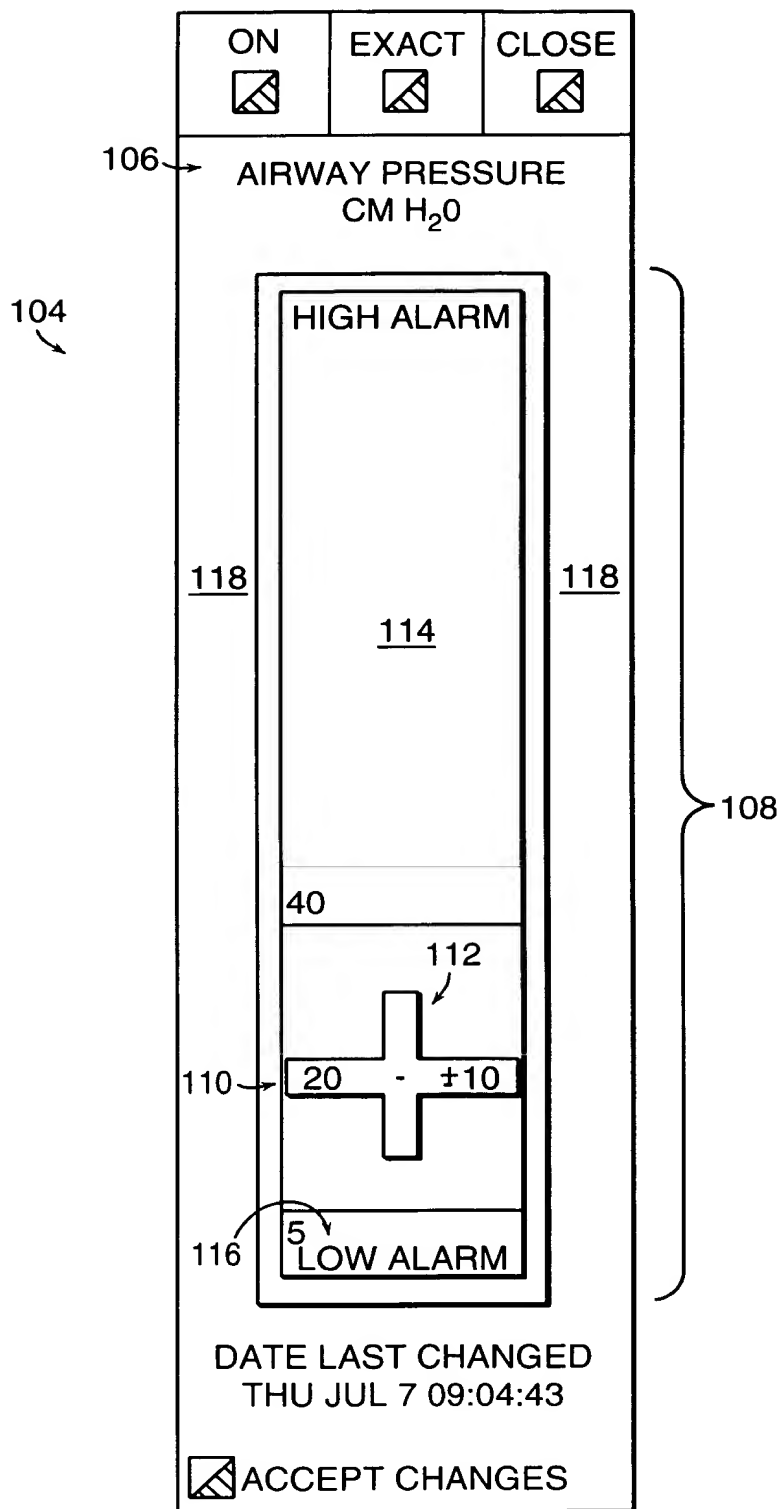


FIG. 9

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: Ventilator Control System and Method  
Inventor(s): Biondi et al.  
U.S. Serial Number: 09/931,572  
Atty Docket No.: CPC-003CPCN2  
Atty: Ronda P. Moore, D.V.M. (617)248-7044  
Sheet 10 of 15

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CHOOSE & SCALE ANY CHANNEL
✕

↑  

☒
CLIP HIGH AT:

1500

↓

☒
TIDAL VOLUME

☒
CLIP LOW AT:

-100.00

OK ☒

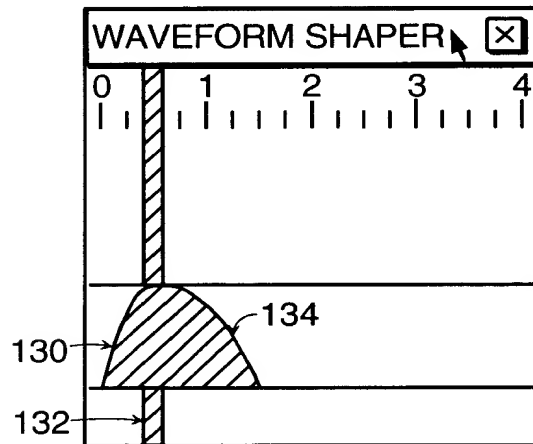
25

120

122
124

126
128

FIG. 10



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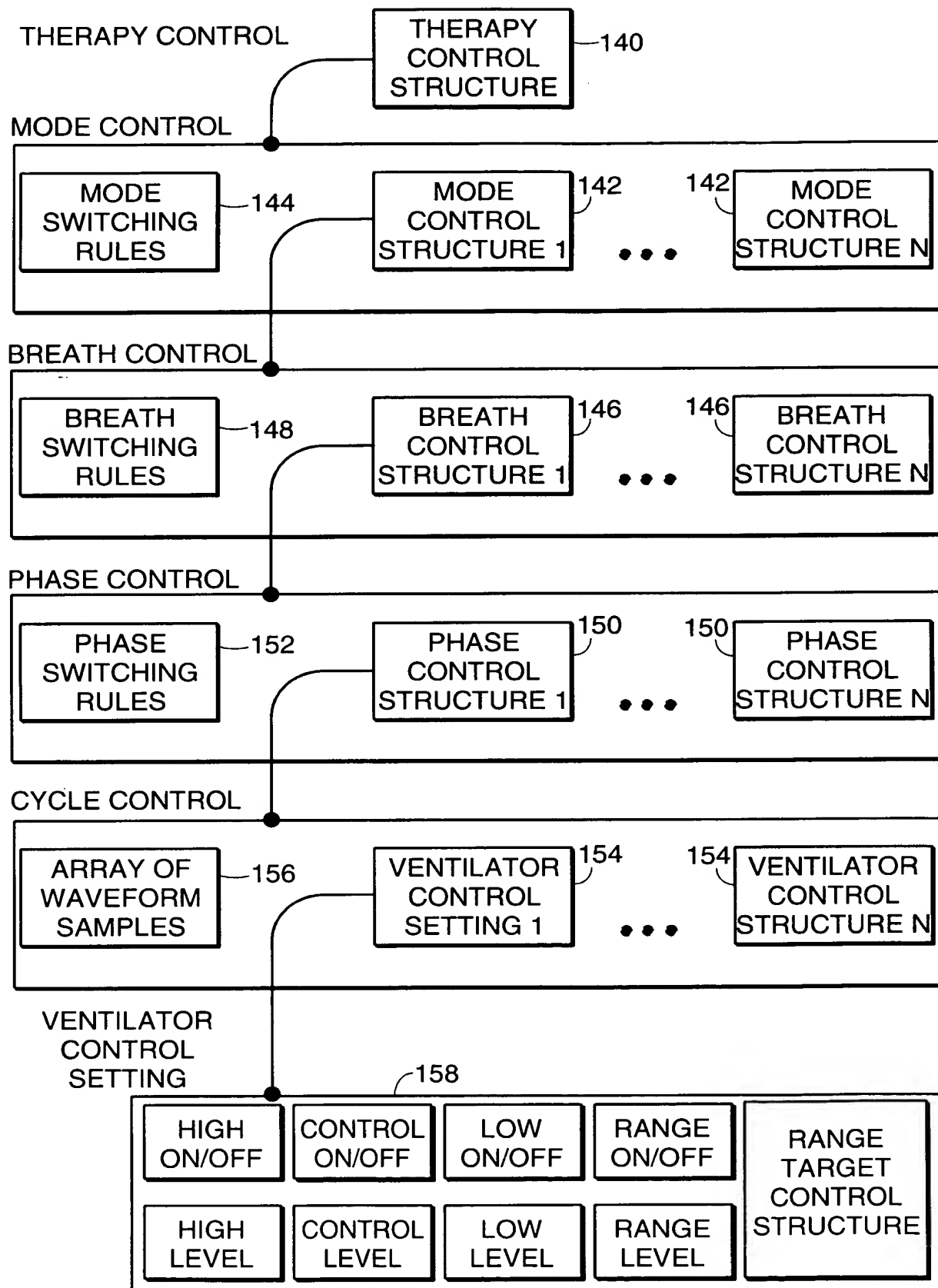


FIG. 11

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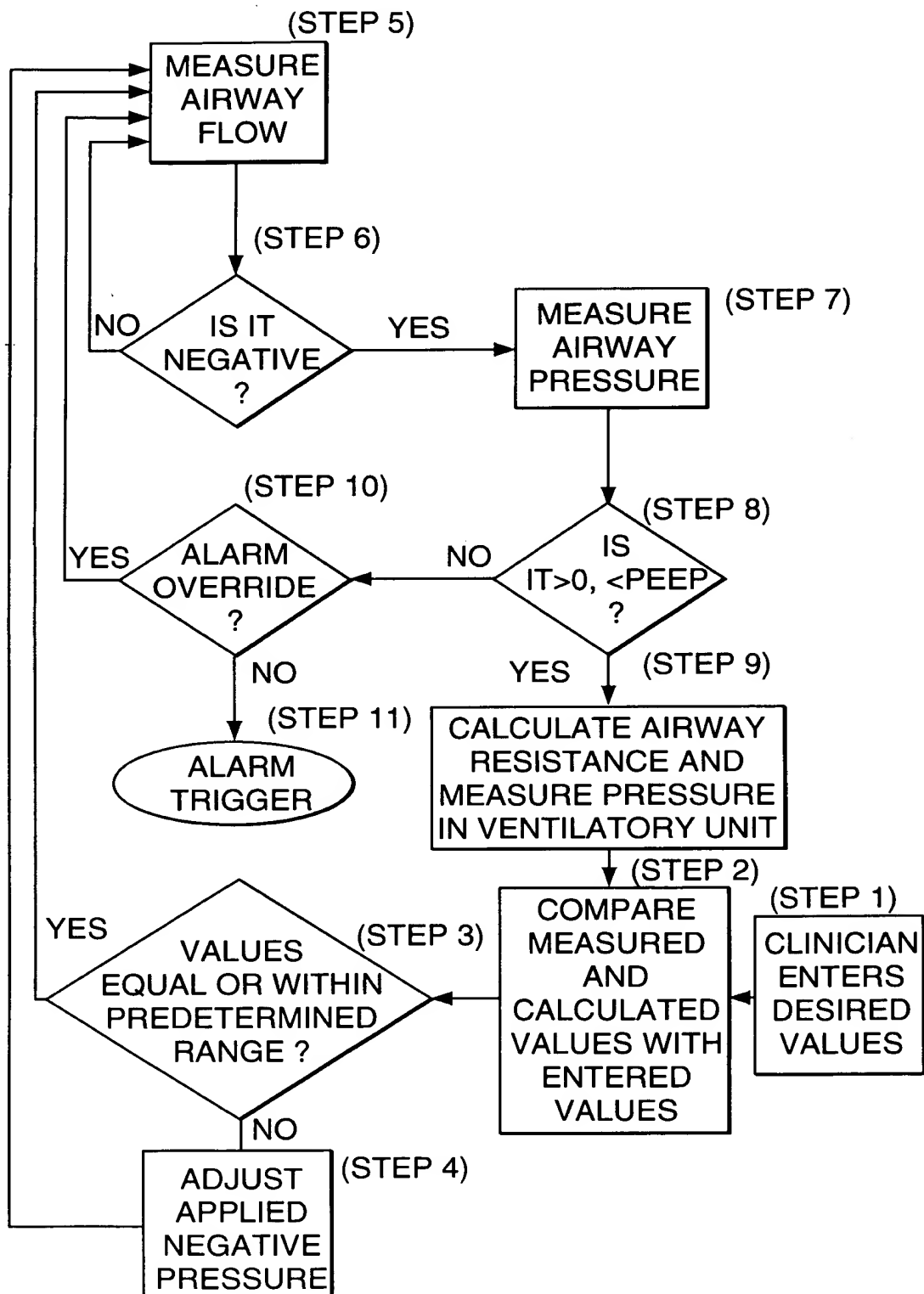


FIG. 12

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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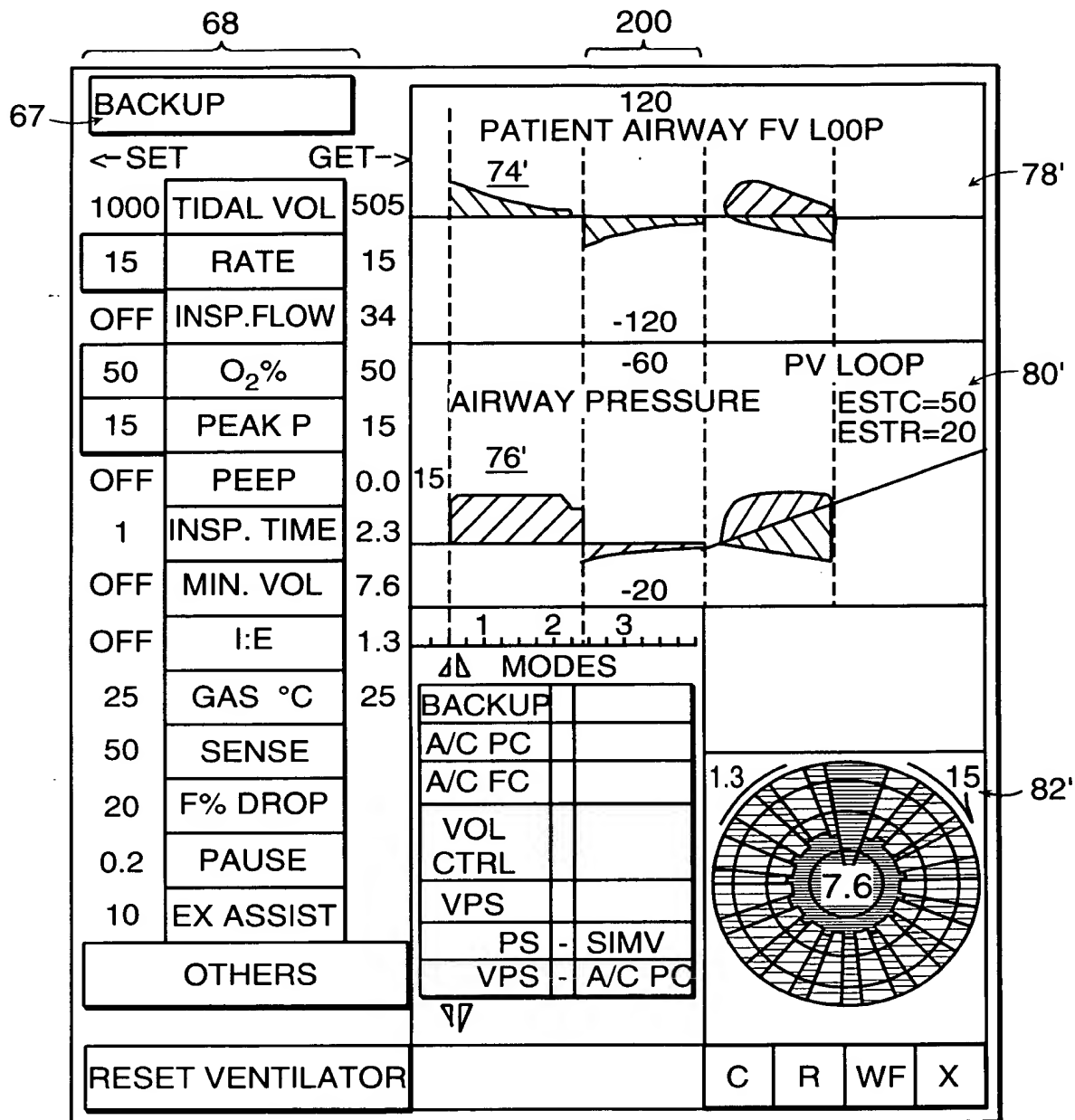


FIG. 13

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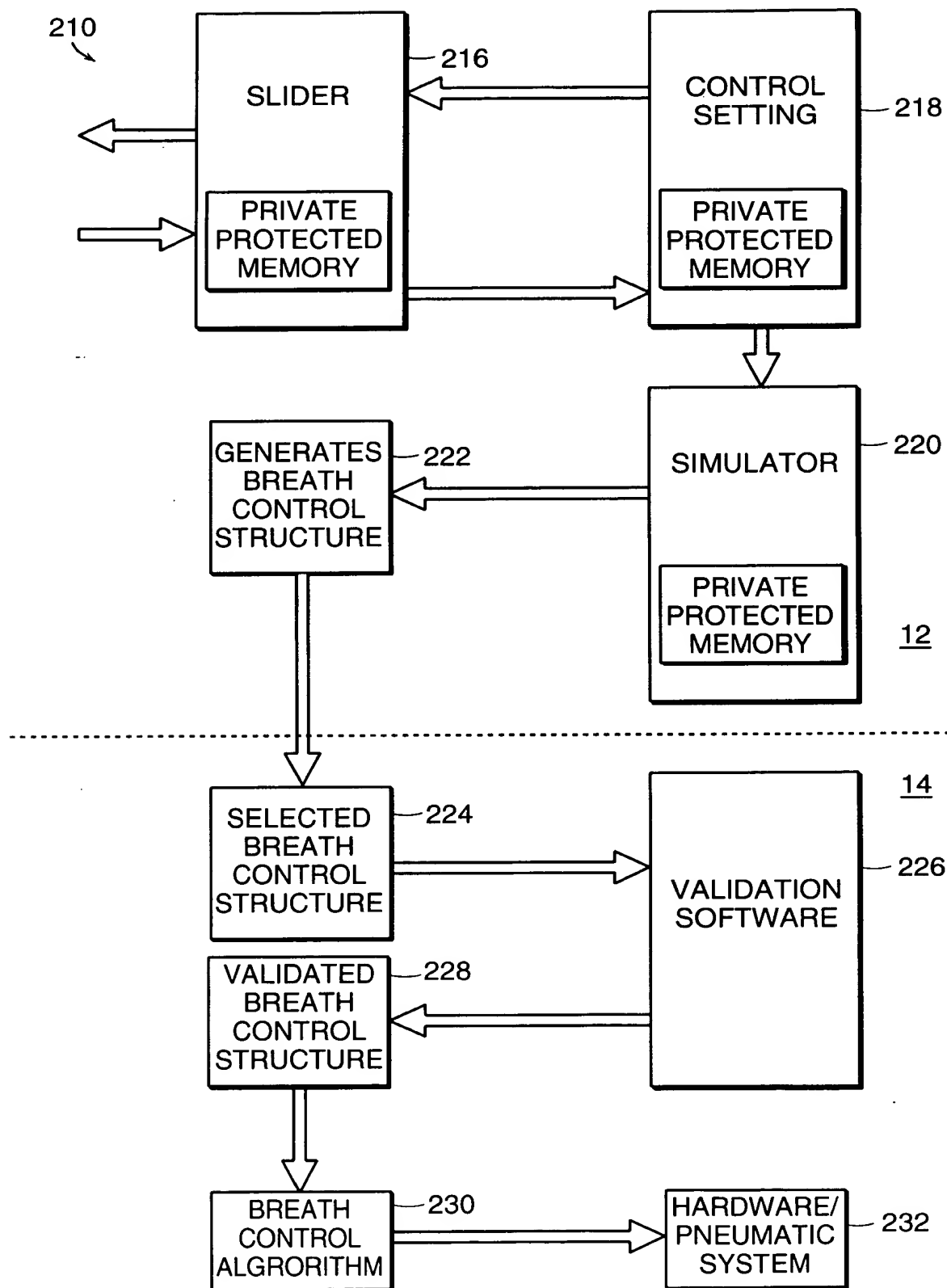


FIG. 14

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VPS-A/C PC

ON  
☒

EXACT

X

INSPIRATION PRESSURE  
 CM H<sub>2</sub>O

RANGE GAS:  
 TIDAL VOLUME 1000

HIGH ALARM

30

15

+

±10

0 LOW ALARM

DATE LAST CHANGED  
 THU DEC 7 17:35:56  
 ACCEPT CHANGES

VPS-A/C PC

ON  
☒

X

INSPIRATION PRESSURE  
 CM H<sub>2</sub>O

RANGE TARGET:  
 TIDAL VOLUME

YES  
☒

RANGE IS  
 ENABLED

YES  
☒

REQUIRED  
 TO BE ON

NO  
☒

REQUIRED  
 TO BE OFF

NO  
☒

SHARED BY  
 BOTH MODES

YES  
☒

HIGHLIGHTED  
 ON SET LIST

MODE CONTROL

YES  
☒

MULTI-MODE  
 IS ENABLED

MODE TRIGGER

NONE  
 SENSE

MV

RATE

CREATE

DELETE

207

209

213

211

215

205

217

219

221

225

223

FIG.16